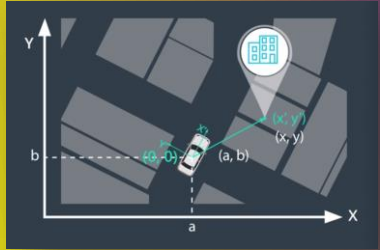


How does a self-driving car see?

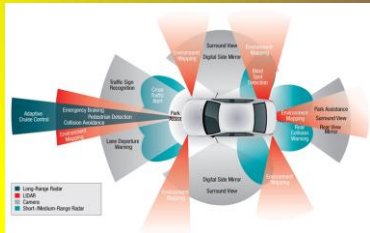
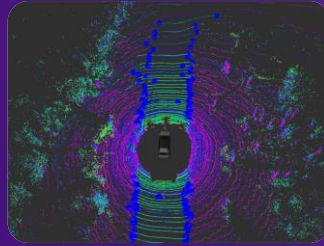
AUTONOMOUS SYSTEMS MCTR 1002
TEAM 4

Locomotion is the ability of the car to move around, accelerate, brake, and steer controlling the car's speed and acceleration



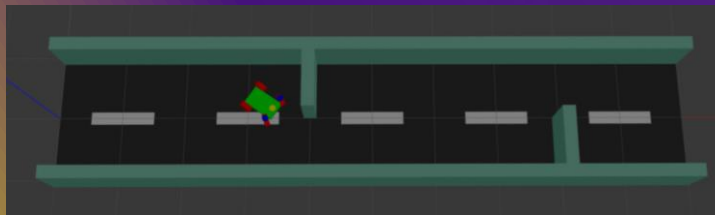
Localization is the ability of the car to know where it is in its environment by using a variety of sensors, including GPS, cameras, and LiDAR

Mapping is the ability of the car to create a map of its environment. to plan its path and avoid obstacles.

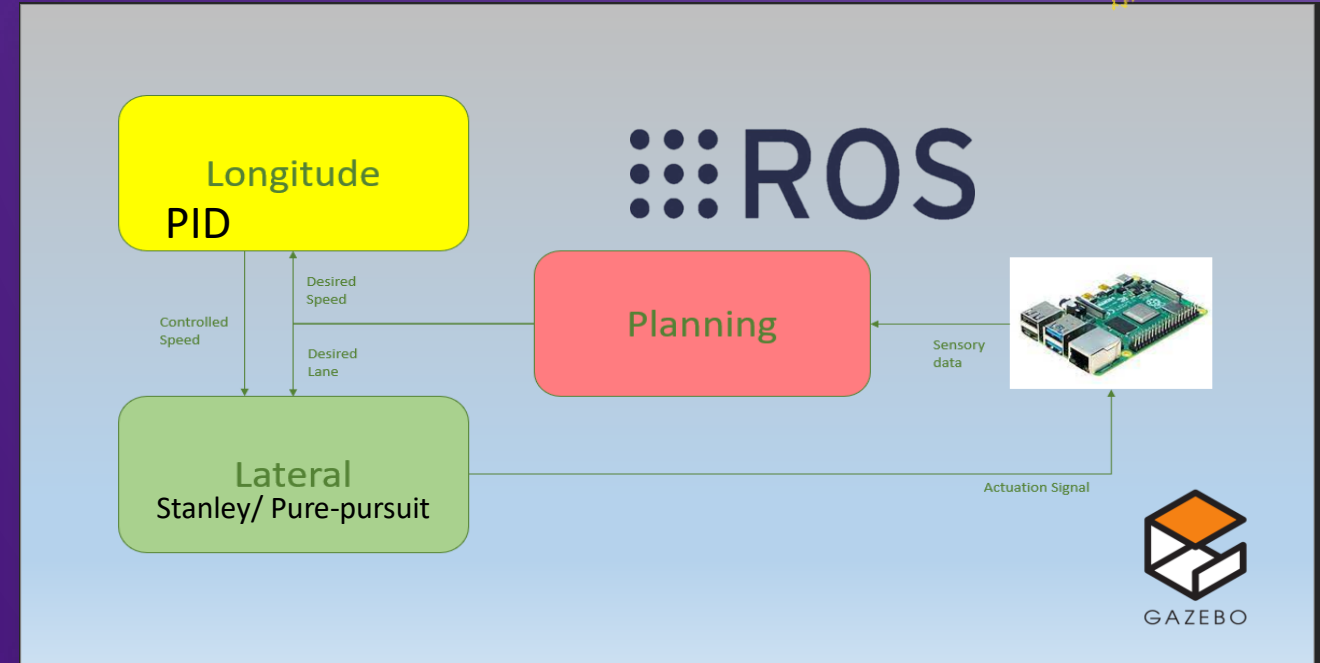


Control is the ability of the car to follow its planned path using a variety of sensors and actuators, including steering, braking, and acceleration.

Path planning is the process of finding a safe and efficient path for the car to follow by taking into account the car's current location, the environment, and the car's goals.



The goal is to develop an autonomous vehicle that can move in a straight line and avoid obstacles using ROS on an embedded raspberry pi 4



SCAN ME

